BENELEC

PROFESSIONAL WIRELESS PRODUCTS

Trunking Portable – BLXT Series
MPT1327

Main Features

- 1023 Channels Capacity
- Frequency Range: refer to Product Table below
- Environmental protection to IP55
- Rugged - MIL STD 810 C/D/E/F
- 1800mAh Li-Ion battery
- Robust multi-pin accessory socket
- Flash upgradeable to add features
- 2/5 Tone Encode / Decode
- Scrolling graphic LCD display
- Channel naming
- Full 20-key keypad
- Voice annunciation (option)
- Bluetooth™ wireless communications (option)

For - Convenience

- VOX hands free (with audio accessory)
- Programmable channel monitor button
- 2/5 tone selective calling
- Open or Closed channel modes
- Call a group, individual or all radios at once
- Multiple ring tones
- Battery charge count
- Invert display
- Talk around
- DTMF dial mode - stored / keypad
- Intuitive menus (like a mobile phone)
- Info button (user guide built in to phone)
- Speed dial
- Who's calling (caller ID)
- 255 user contact list (just like a mobile phone)
- Missed, received and dialed number lists
- Selectable "profiles" General, Silent & DND (with auto respond)

For - Security

- Stun & alarm a lost or stolen radio (& revive if found)
- Programmable scrambler (voice inversion)
- Power on password option

For - Safety

- Local Personal Attack Alarm
- Panic button with remote alert
- Emergency microphone live
- Automatic Lone Worker alarm mode
- Automatic Man Down alarm mode (option)
- Shunting mode (for rail companies)
- Continue alarm even if switched off
- Silent alarm call mode
- Manual location information with emergency
- Fully automatic indoor location information (option)
- GPS location information with emergency (option)
- GPS navigator to casualty (option)

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For - Text Messaging & Emails

- Send / display status messages
- Send /display predefined text messages
- Send / display free format text/email text messages

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Completing the BLXT400 2.0 series of radios, our MPT1327 portables are possibly the most compact, easy to use, feature-rich range of MPT radios available on the global market. Whatever your needs, there is a variant to meet your requirements, from the ultra simple non-display version, through to the full keypad model with mobile 'phone-style menus and high visibility back-lit display – all of them conforming to the robust MIL-STD 810C/D/E/F and superior splash proof IP55 construction

Utilising the latest intelligent Lithium-Ion battery technology, LCD versions of the MPT1327 BLXT Series 2.0, if dealer enabled, will display a battery cycle count each and every time you power-on your radio. For your convenience they will even alert you to imminent battery life expiration.

All variants of this MPT1327 radio support lone worker, man down, indoor/ outdoor location and Bluetooth. Additionally, the LCD versions enable the sending and receiving of text/ e-mail messages and with the optional GPS feature fitted, LCD versions will also allow users to locate and navigate towards a lone worker in distress.

Benelec Part #	Model and Spec	Description & Spec	Frequency (MHz)	Thumbnail
01121426T	BLX426T	VHF High - 1023 Channels	136 -174	
01131486T	BLX486T	UHF - 1023 Channels	400 - 470	
01151486TU	BLX486T-U	UHF U/Band - 1023 Channels	450-520	

Technical Specifications

General

Frequency Range	BLX416: VHF 66 - 88MHz / BLX426: VHF 136 - 174MHz BLX486: UHF 400 - 470MHz/BLX486-U: UHF u/band 450 - 520MHz
Channels	255 Channels
Channel Spacing	12.5 kHz / 25 kHz
Communication Method	Simplex / semi duplex
Antenna Impedance	50 Ω
Antenna	Whip / stubby
Battery Type	1800 mAh Li-Ion battery pack
Power Supply Voltage	7.4V DC
Microphone	Internal condenser microphone
Operating Temperature	- 20º to + 55ºC
Size (mm)	61 (W) x 100 (H) x 31 (D)
Weight	274g with battery and aerial

Transmitter

Power Output	High: 5W, Low: 1W
Modulation	8K0G3E / 16K0G3E
Oscillator Method	PLL
Frequency Stability	< ±0.00025% (±2PPM)
Maximum Deviation	±2.5kHz(Narrow) / ±5kHz (Wide)
Audio Distortion	< 5% (1 kHz 60%)
Spurious Emission	-68dBc
Hum & Noise	- 40dB

Receiver

Receiver Type	Double Super Heterodyne type
Sensitivity	-0.25uV (12dB SINAD)
Frequency Stability	±0.00025% (±2PPM)
Spurious Rejection	-60 dB
Adjacent Channel Selectivity	-60 dB (Narrow), -70 dB (Wide)
Distortion	5% (1 kHz 60%)
Hum & Noise	-40 dB
Audio Output	1W
Speaker Size	45 mm

Supplied Accessories

- CNB450E - 7.4v, 1800mAh rechargeable Lithium-Ion battery pack
- CBH450 - Spring loaded belt clip
- High efficiency antenna (can be exchanged for stubby antenna at point of order)
- User manual

Optional Accessories

Batteries & Chargers

Model No & Descriptions	Thumbnail
CNB450E - 7.4v, 1800mAh rechargeable Lithium-Ion battery pack The CNB450E is an 1800mAh Lithium-Ion lightweight battery pack for the BLX series of hand portable radios. The Lithium-Ion technology gives the radio a long operating time and the batteries will not suffer from the 'memory effect' that can be experienced on radios using alternative battery chemistries.	
CNB451E - 7.4v, 2300mAh rechargeable Lithium-Ion battery pack The CNB451E is an 2300mAh Lithium-Ion high capacity battery pack for the BLX series of hand portable radios. The Lithium-Ion technology gives the radio a long operating time and the batteries will not suffer from the 'memory effect' that can be experienced on radios using alternative battery chemistries.	
CMC450E – Single-unit, 12v dual slot rapid charger for the BLX series hand portable This intelligent rapid mains charger ensures that the battery only receives the correct amount of charge. Charge status is indicated via a multi-coloured LED so you will know whether the battery is fully charged before use. Charger operates between 110-230V. The front pocket accommodates the radio complete with attached battery; the rear pocket accommodates the battery only. Charging commences with the front pocket and when the charge is complete it switches to the rear pocket. Due to the high capacity of the BLX Li-Ion battery pack, charge time is between 1.5 - 2 hours.	
CSAHX – Single-unit, dual slot rapid charger for the BLX series hand portable This intelligent rapid mains charger ensures that the battery only receives the correct amount of charge. Charge status is indicated via a multi-coloured LED so you will know whether the battery is fully charged before use. Charger operates between 110-230V. The front pocket accommodates the radio complete with attached battery; the rear pocket accommodates the battery only. Charging commences with the front pocket and when the charge is complete it switches to the rear pocket. Due to the high capacity of the BLX Li-Ion battery pack, charge time is between 1.5 - 2 hours.	
CSBHX - Six-unit multi rapid charger for BLX series hand portable radio This six-unit intelligent rapid mains charger ensures that the batteries only receive the correct amount of charge. Charge status is indicated on each pod via a multi-coloured LED so you will know whether the battery is fully charged before use. The front pocket accommodates the radio complete with attached battery; the rear pocket accommodates the battery only. Charging commences with the front pocket and when the charge is complete it switches to the rear pocket. Charger operates between 110-230V. Due to the high capacity of the BLX Li-Ion battery pack, charge time is between 1.5 - 2 hours.	

Audio Accessories

CMP1/450 – Pocket size lapel speaker microphone for the BLX series hand portable radio The CMP1/450 is attached with a revolving clip and allows the radio user to carry the radio on their belt and have the facility to both make and receive calls without removing their radio. This keeps the radio safe and ensures that calls are not missed, especially in noisy environments. The CMP1/450 has a socket (3.5mm mono) to allow an optional earpiece (EHP9) for discreet reception of calls. This accessory is designed for light to medium duty applications, so to ensure maximum life span it should be personally allocated to users.	
CMP450 - Heavy duty submersible speaker microphone CMP450 - A submersible, very rugged, heavy duty lapel speaker microphone for the BLX series hand portable radio. The CMP450 is attached with a revolving clip and allows the radio user to carry the radio on their belt and have the facility to both make and receive calls without removing their radio. This keeps the radio safe and ensures that calls are not missed, especially in noisy environments. The CMP450 has a socket (3.5mm mono) to allow an optional earpiece (EHP9) for discreet reception of calls. Note: When the earpiece is attached the speaker microphone is no longer submersible, until the earpiece is removed and the waterproof cover is replaced and tightened.	
EA12/450 – 'D' shaped earpiece and tie clip microphone for the BLX series hand Portable Radio A 'D' shaped, soft rubber-feel earpiece, which fits over your ear. This is connected to a combined tie clip microphone and press to talk button via a curly cable. A rotating strain relief clip can attach to your collar to prevent the earpiece being dislodged if the cable were pulled. The EA12/450 allows the radio user to carry the radio on their belt and have the facility to both make and receive calls without removing their radio. This keeps the radio safe and ensures that calls are not missed, especially in noisy environments. This accessory is designed for light to medium duty applications, so to ensure maximum life span it should be personally allocated to users.	
EA15/450 – Acoustic tube earpiece and tie clip microphone for BLX series hand Portable Radio A clear acoustic tube earpiece which fits in your ear using the small or large soft pink ear plugs supplied. This is connected to a combined tie clip microphone and press to talk button (PTT). The EA15/450 allows the radio user to carry the radio on their belt and have the facility to both make and receive calls without removing their radio. This keeps the radio safe and ensures that calls are not missed, especially in noisy environments. This accessory is particularly suited to covert, security applications. This accessory is designed for light to medium duty applications, so to ensure maximum life span it should be personally allocated to users.	
EA19/450 – 'D' shaped earpiece with boom microphone for the BLX series hand Portable Radio A 'D' shaped, soft rubber-feel earpiece, which fits over your ear. The earpiece is combined with a lightweight short profile boom microphone. There is an in-line press to talk button (PTT) with clip. The EA19/450 allows the radio user to carry the radio on their belt and have the facility to both make and receive calls without removing their radio. This keeps the radio safe and ensures that calls are not missed, especially in noisy environments. This accessory is designed for light to medium duty applications, so to ensure maximum life span it should be personally allocated to users.	
EPT40/450 - Bone conductive earpiece microphone for the BLX series hand Portable Radio The combined microphone/earpiece allows discreet communication with no visible microphone. The earpiece connects via a quality in line connector to a large rugged waterproof press to talk (PTT) button that can clip on to a belt or other suitable position using the rugged revolving clip. The press to talk switch is easy to use, has a positive feel and can be used by a gloved hand or under clothing. As with all bone conductive accessories, we do not recommend using voice operated transmit (VOX).	
CXR5/450 - Bone conductive skull microphone with in-line PTT for the BLX series hand portable radio A high quality rugged bone conductive skull cap. The fully adjustable CXR5 fits on your head similar to a cap. The metal frame supports the bone conductor microphone, which fits on adjustable straps and sits on the top of your head. The adjustable twin earpieces clip into position each side. The robust cable exits the skullcap from the rear and attaches via a quality in-line connector to a large rugged waterproof press to talk switch that can clip on to a belt or other suitable position using the rugged revolving clip. The press to talk switch is easy to use, has a positive feel and can be used by a gloved hand or under clothing. As with all bone conductive accessories, we do not recommend using voice operated transmit (VOX).	
CXR16/450 – 'D' Shaped earpiece, throat microphone with large in-line PTT for the BLX series hand portable radio A high quality throat microphone with a comfortable soft-feel adjustable neck band. A rugged 'D' shaped earpiece accompanies the throat microphone and connects via a quality in-line connector to a large rugged waterproof press to talk switch that can clip on to a belt or other suitable position using the rugged revolving clip. The large sized press to talk (PTT) switch is easy to use, has a positive feel and can be used by a gloved hand or under clothing.	

CHP1/450 - Lightweight single earpiece headset with in-line PTT and VOX for the BLX series hand portable radio A 'breeze' style single earpiece wire-framed headset with boom microphone and wind cover. The headset has an in-line press to talk (PTT) button or the headset can be used with automatic voice activated transmit (when activated on the radio). The CHP1/450 allows the radio user to carry the radio on their belt and have the facility to both make and receive calls without removing their radio. This keeps the radio safe and ensures that calls are not missed, especially in noisy environments. This accessory is designed for light to medium duty applications, so to ensure maximum life span it should be personally allocated to users.	
CHP450HS - Single earpiece ear defender (hard hat use only) with VOX for the BLX series hand portable radio A heavy duty single ear-cup earpiece with high quality noise-cancelling boom microphone and designed to connect to any safety hard hat via the supplied universal adapter. The headset provides both voice operated transmit (VOX) and a large easy-to-use press to talk button with spring-loaded clip, allowing the radio to be operated using a gloved hand or under clothing. We do stock a small range of common hardhat adapters, which can be supplied in place of the universal adapter (please specify at time of ordering).	
CHP450HD - Double ear-cup ear defender (hard hat use only) with VOX for the BLX series hand portable radio A heavy duty ear defender headset with high quality noise-cancelling boom microphone designed to connect to any safety hard hat via the supplied universal adapter. The headset provides both voice operated transmits and a large easy-to-use press to talk button with spring-loaded clip, allowing the radio to be operated using a gloved hand or under clothing. We do stock a small range of common hardhat adapters, which can be supplied in place of the universal adapter (please specify at time of ordering).	
CHP450D - Double ear-cup ear defender with comfort headband and VOX for the BLX series hand portable radio A heavy duty ear defender headset with high quality noise-cancelling boom microphone designed to connect to any safety hard hat via the supplied universal adapter. The headset provides both voice activated transmits and a large easy-to-use press to talk (PTT) button with spring-loaded clip, allowing the radio to be operated using a gloved hand or under clothing. We do stock a small range of common hard hat adapters which can be supplied in place of the universal adapter (please specify at time of ordering).	
EHP450 – 'D' shaped covert style earpiece for the BLX series hand portable radio A 'D' shaped soft rubber-feel earpiece, which fits over your ear. The earpiece is designed to connect into the BLX series radio, via the locking accessory connector. (Note: before this accessory can be used, it is necessary for the dealer to enable the listen-only feature in the radio's programming software). This accessory is designed for light to medium duty applications, so to ensure maximum life span it should be personally allocated to users.	
EHP9 - 'D' shaped covert style earpiece for the BLX series hand portable radio A 'D' shaped soft rubber-feel earpiece, which fits over your ear. The earpiece is designed to connect into the CMP400 or CMP1/400 lapel speaker microphones. This accessory is designed for light to medium duty applications, so to ensure maximum life span it should be personally allocated to users.	
Miscellaneous	
CFC450 – Soft leather case with carry strap for the BLX series hand portable radio A soft lightweight carry case with belt clip available in black. The case comes with a wrist lanyard offering the choice of carrying methods and gives the radio both cosmetic and some impact protection.	
CLC450 – Heavy duty leather case and strap with belt loop for the BLX series hand portable radio A heavy duty leather carry case with belt loop and strap. This will give the radio cosmetic and maximum impact protection if dropped or knocked.	
CXW591 - Antenna adaptor for external aerial connection	-
CBH450 - Spare spring loaded belt clip	-
CAT450V - VHF high-band helical antenna for the BLX series hand portable A VHF high band antenna for the BLX series hand portables. This antenna provides optimum performance with the VHF hand portable transceiver.	-
CAT450VS - VHF high-band stubby antenna for the BLX series hand portable A VHF high band antenna for the BLX series hand portables. This antenna offers a compact size whilst still delivering good performance. Note: if the range of your communication system is an important factor, we suggest that you use the full-length antenna for the BLX Series.	-